

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau(43) International Publication Date  
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number  
**WO 2005/005441 A3**(51) International Patent Classification<sup>7</sup>: C07F 7/21, 7/08(74) Agents: DAVIES, Peter, V. et al.; Dow Corning Limited,  
Cardiff Road, Barry CF63 2YL (GB).

(21) International Application Number:

PCT/EP2004/007805

(22) International Filing Date: 2 July 2004 (02.07.2004)

(25) Filing Language: English

(26) Publication Language: English

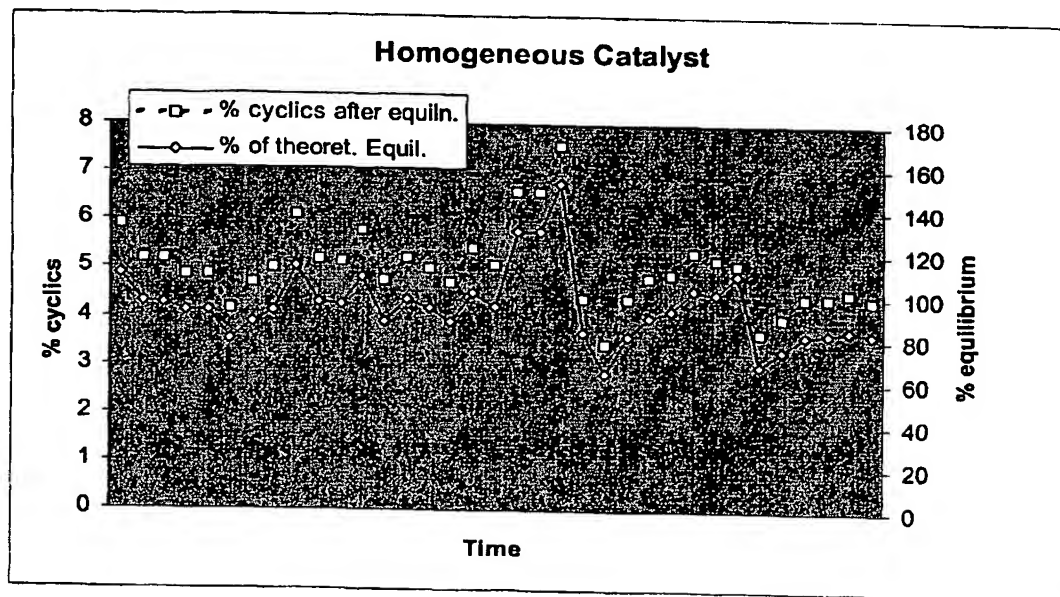
(30) Priority Data:  
0316268.2 11 July 2003 (11.07.2003) GB(71) Applicant (for all designated States except US): DOW  
CORNING CORPORATION [US/US]; Midland, MI  
48611 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RICHARD, Tay-  
lor [GB/GB]; 140 South Road, Sully CF64 5SP (GB).  
ROBERT, Phillips [GB/GB]; Top Flat, 28 Plassey Street,  
Penarth CF64 1EJ (GB).(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: PROCESS FOR PREPARING CYCLIC ORGANOHYDROGENSILOXANES



(57) Abstract: A process for preparing cyclic organohydrogensiloxanes comprises: (A) contacting a silane of the formula  $\text{RHSiCl}_2$ , where R is selected from alkyl radicals having 1 to 12 carbon atoms and aryl radicals, with water to form a hydrolyzate comprising cyclic organohydrogensiloxanes and linear organohydrogensiloxanes, and (B) contacting the hydrolyzate with an acidic rearrangement catalyst in the presence of an inert liquid diluent to increase the ratio of the cyclic organohydrogensiloxanes to linear organohydrogensiloxanes in the hydrolyzate. The acidic rearrangement catalyst is an organic compound containing a strong acid group, for example a sulphonic acid, which is dissolved in the inert diluent present.



**Published:**

— with international search report

**(88) Date of publication of the international search report:**

7 April 2005

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*